

# VIBRATION SENSORS



## EMBEDDED ACCELEROMETERS

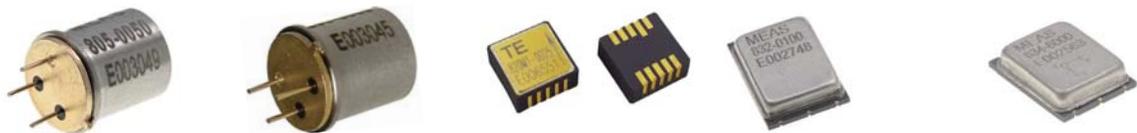
### MEMS DC Accelerometer



	<b>3022, 3028</b>	<b>3052A, 3058A</b>	<b>3038</b>	<b>3255A</b>
<b>Package</b>	Pins or pads	Pins or pads	SMD	SMD
<b>Type</b>	Board level	Board level	Board level	Board level
<b>FS Range</b>	±2g to ±100g	±2g to ±100g	±50g to ±6,000g	±25g to ±100g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• mV output, critically gas damped</li> <li>• Board and screw mount options</li> <li>• Pin or solder pad option</li> </ul>	<ul style="list-style-type: none"> <li>• Temperature compensated</li> <li>• Board and screw mount options</li> <li>• Pin or solder pad option</li> </ul>	<ul style="list-style-type: none"> <li>• Hermetically sealed</li> <li>• High over-range protection</li> <li>• Gas damping</li> </ul>	<ul style="list-style-type: none"> <li>• Amplified, signal conditioned</li> <li>• Gas damping</li> <li>• Bidirectional mounting</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity	±1.0% non-linearity	±1.0% non-linearity	±1.0% non-linearity
<b>Operating Temp.</b>	-40°C to 125°C	-40°C to 125°C	-54°C to 125°C	-40°C to 125°C
<b>Dimensions (mm)</b>	22.8 x 15.2 x 5.3	22.8 x 15.2 x 5.3	7.5 x 7.5 x 3.3	13.5 x 7.6 x 3.8
<b>Typical Applications</b>	Vibration and shock monitoring, tilt applications, motion control, impact testing	Vibration and shock monitoring, tilt applications, motion control, impact testing	Vibration and shock monitoring, embedded systems, shock testing, safe and arm	Vibration and shock monitoring, aerospace testing, impact testing, transportation

## EMBEDDED ACCELEROMETERS

### Piezoelectric Accelerometer



	<b>805, 805M1</b>	<b>808, 808M1</b>	<b>820M1</b>	<b>832, 832M1</b>	<b>834, 834M1</b>
<b>Package</b>	TO-5	TO-8	Board level	SMD	SMD
<b>Type</b>	Adhesive (Stud mount option)	Adhesive (Stud mount option)	SMD	Board mount	Board mount
<b>FS Range</b>	±20g to ±500g	±4g to ±50g	±25g to ±500g	±25g to ±500g	±2,000g to ±6,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Hermetically sealed</li> <li>• Case grounded design</li> <li>• Bandwidth to 12 kHz</li> </ul>	<ul style="list-style-type: none"> <li>• Hermetically sealed</li> <li>• Case grounded design</li> <li>• Bandwidth to 8 kHz</li> </ul>	<ul style="list-style-type: none"> <li>• Small size, low cost</li> <li>• Dynamic response</li> <li>• Wide &gt;6000Hz bandwidth</li> </ul>	<ul style="list-style-type: none"> <li>• SMT mount, triaxial</li> <li>• Wide bandwidth &gt;6000Hz</li> <li>• Low power consumption</li> </ul>	<ul style="list-style-type: none"> <li>• SMT mount, triaxial</li> <li>• Wide bandwidth &gt;6,000Hz</li> <li>• Low power consumption</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity	±1.0% non-linearity	±2.0% non-linearity	±2.0% non-linearity	±2.0% non-linearity
<b>Operating Temp.</b>	-50°C to 125°C	-50°C to 100°C	-40°C to 125°C	-20°C to 80°C (832) -40°C to 125°C (832M1)	-20°C to 80°C (834) -40°C to 125°C (834M1)
<b>Dimensions (mm)</b>	Ø8.9 x 10.2	Ø15.2 x 16.6	8.9 x 8.9 x 4.2	18.8 x 14.2 x 4.3	18.8 x 14.2 x 4.3
<b>Typical Applications</b>	Machine monitoring, data loggers, permanent structures	Machine monitoring, data loggers, embedded applications	Embedded predictive maintenance, condition monitoring, data loggers	Data logging, asset monitoring, impact monitoring	Data logging, asset monitoring, impact monitoring

## PLUG AND PLAY ACCELEROMETERS

Uniaxial DC Response



### 40A, 40B

<b>Package</b>	Anodized aluminum
<b>Type</b>	Screw mount
<b>FS Range</b>	±25g to ±2,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Critically damped</li> <li>• Euro NCAP certified</li> <li>• Compact</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity
<b>Operating Temp.</b>	-20°C to 80°C
<b>Dimensions (mm)</b>	16.7 x 10.0 x 5.0
<b>Typical Applications</b>	Pedestrian crash testing, Euro NCAP testing



### 52, 52M30, 52F

<b>Package</b>	Anodized aluminum
<b>Type</b>	Adhesive and Screw mount
<b>FS Range</b>	±50g to ±6,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• SAE-J211/2570 and ISO-6487 compliant</li> <li>• Gas damping, thin profile</li> <li>• Over-range stops</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity
<b>Operating Temp.</b>	-40°C to 90°C
<b>Dimensions (mm)</b>	11.2 x 10.1 x 3.8
<b>Typical Applications</b>	Vibration and shock testing, safety impact testing, side-impact testing



### 58

<b>Package</b>	Anodized Aluminum
<b>Type</b>	Adhesive mount
<b>FS Range</b>	±50g to ±6,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Most reliable crush zone accelerometer available</li> <li>• Rugged, water proof</li> <li>• Mounting on any sides of housing</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity
<b>Operating Temp.</b>	-20°C to 85°C
<b>Dimensions (mm)</b>	14.0 x 6.3 x 6.3
<b>Typical Applications</b>	On-vehicle crash and impact testing, drop testing, harsh environment



### 64B, 64C, 64X

<b>Package</b>	Anodized aluminum
<b>Type</b>	Screw mount
<b>FS Range</b>	±50g to ±6,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• SAE-J211/2570 and ISO-6487 compliant</li> <li>• ATD dummy certified</li> <li>• Market performance leader</li> </ul>
<b>Accuracy</b>	±0.7% non-linearity
<b>Operating Temp.</b>	-40°C to 121°C
<b>Dimensions (mm)</b>	13.1 x 10.0 x 5.0
<b>Typical Applications</b>	In-dummy crash and impact testing, Euro NCAP testing



### 1201, 1201F

<b>Package</b>	Anodized aluminum
<b>Type</b>	Adhesive/screw mount
<b>FS Range</b>	±50g to ±2,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Cube form factor, low noise cable</li> <li>• Adhesive or screw mount</li> <li>• Over-range stops</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity
<b>Operating Temp.</b>	-20°C to 85°C
<b>Dimensions (mm)</b>	8.9 x 8.9 x 9.4
<b>Typical Applications</b>	On-vehicle crash and impact testing, vibration and shock monitoring

## PLUG AND PLAY ACCELEROMETERS

Uniaxial DC Response



### 3801A, 4801A

Package	Stainless steel
Type	Stud mount
FS Range	4801A; $\pm 2g$ to $\pm 200g$ 3801A; $\pm 50g$ to $\pm 6,000g$
Unique Features	<ul style="list-style-type: none"> <li>Hermetically sealed sensor</li> <li>mV and amplified output options</li> <li>Integral connector, detachable cable</li> </ul>
Accuracy	$\pm 0.1\%$ non-linearity on 4801A
Operating Temp.	$-54^{\circ}\text{C}$ to $121^{\circ}\text{C}$
Dimensions (mm)	15.9 x 15.2
Typical Applications	Impact testing, structural testing, test and instrumentation, environmental testing



### 3700

Package	Stainless steel
Type	Screw mount
FS Range	$\pm 50g$ to $\pm 6,000g$
Unique Features	<ul style="list-style-type: none"> <li>No zero shift</li> <li>mV output</li> <li>20,000 g over-range protection</li> </ul>
Accuracy	$\pm 1.0\%$ non-linearity
Operating Temp.	$-54^{\circ}\text{C}$ to $121^{\circ}\text{C}$
Dimensions (mm)	14.2 x 8.1 x 3.8
Typical Applications	Impact and shock testing, structural testing, drop testing, aerospace testing



### EGAXT, EGAXT3

Package	Stainless steel
Type	Adhesive/screw mount
FS Range	$\pm 5g$ to $\pm 2,500g$
Unique Features	<ul style="list-style-type: none"> <li>Sub-miniature, fluid damped</li> <li>Miniature single and triaxial designs</li> <li>10,000 g over-range protection</li> </ul>
Accuracy	$\pm 1.0\%$ non-linearity
Operating Temp.	$-40^{\circ}\text{C}$ to $120^{\circ}\text{C}$
Dimensions (mm)	EGAXT; 7.2 x 4.6 x 4.6 EGAXT3; 12.7 x 12.7 x 12.7
Typical Applications	Flight test and control, launch, crash, impact testing, robotics



### EGCS-D0, EGCS-D1S, EGCS-D5

Package	Stainless steel
Type	Screw/stud mount
FS Range	$\pm 5g$ to $\pm 10,000g$
Unique Features	<ul style="list-style-type: none"> <li>Rugged housing</li> <li>Critically damped</li> <li>20,000 g over-range protection</li> </ul>
Accuracy	$\pm 1.0\%$ non-linearity
Operating Temp.	$-40^{\circ}\text{C}$ to $120^{\circ}\text{C}$
Dimensions (mm)	D0: 19.0 x 19.0 x 7.6 D1S: 12.7 x 12.7 x 15.2 D5: 14.2 x 12.7 x 5.6
Typical Applications	Impact and shock testing, destructive testing, engine testing



### 4602, 4604

Package	Anodized aluminum
Type	Screw mount
FS Range	$\pm 2g$ to $\pm 200g$
Unique Features	<ul style="list-style-type: none"> <li>UltraStable MEMS</li> <li>Low noise, signal conditioned</li> <li>&lt;2% TEB (total error band)</li> </ul>
Accuracy	$\pm 0.1\%$ non-linearity
Operating Temp.	$-54^{\circ}\text{C}$ to $125^{\circ}\text{C}$
Dimensions (mm)	21.1 x 21.6 x 7.6
Typical Applications	Flight testing on engines, flutter test, road load and transportation testing



### 4610, 4810A

Package	Stainless steel
Type	Screw mount
FS Range	$\pm 2g$ to $\pm 200g$
Unique Features	<ul style="list-style-type: none"> <li>UltraStable MEMS</li> <li>Hermetically sealed</li> <li>&lt;2% TEB (total error band)</li> </ul>
Accuracy	$\pm 0.1\%$ non-linearity
Operating Temp.	$-55^{\circ}\text{C}$ to $125^{\circ}\text{C}$
Dimensions (mm)	25.4 x 29.1 x 7.6
Typical Applications	Low frequency monitoring, road testing, motion analysis

## PLUG AND PLAY ACCELEROMETERS

Triaxial DC Response



### 53A, 53AF

<b>Package</b>	Anodized aluminum
<b>Type</b>	Adhesive mount
<b>FS Range</b>	±50 to ±2,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Low cost</li> <li>• Gas damping</li> <li>• Low power</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity
<b>Operating Temp.</b>	-20°C to 85°C
<b>Dimensions (mm)</b>	18.3 x 13.2 x 7.1
<b>Unique Features</b>	Auto safety, passenger comfort, transportation, NVH analysis



### 68CM1

<b>Package</b>	Stainless steel
<b>Type</b>	Screw mount
<b>FS Range</b>	±50 to ±2,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• World SID</li> <li>• Gas damping</li> <li>• Low power</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity
<b>Operating Temp.</b>	-20°C to 85°C
<b>Dimensions (mm)</b>	12.7 x 12.7 x 12.7
<b>Unique Features</b>	Auto safety, in-dummy crash, on-vehicle crash



### 4630

<b>Package</b>	Anodized aluminum
<b>Type</b>	Screw mount
<b>FS Range</b>	±2g to ±200g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• UltraStable MEMS</li> <li>• Low noise, signal conditioned</li> <li>• &lt;2% TEB (total error band)</li> </ul>
<b>Accuracy</b>	±0.1% non-linearity
<b>Operating Temp.</b>	-40°C to 115°C
<b>Dimensions (mm)</b>	26.2 x 26.2 x 23.4
<b>Unique Features</b>	Road testing, motion control, structural testing



### 4020, 4030

<b>Package</b>	Molded plastic
<b>Type</b>	Screw mount
<b>FS Range</b>	±2g to ±6g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Low cost</li> <li>• Biaxial, with triaxial option</li> <li>• DC response</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity
<b>Operating Temp.</b>	-40°C to 85°C
<b>Dimensions (mm)</b>	71.2 x 40.0 x 15.2
<b>Unique Features</b>	Structural monitoring, seismic array, bridge testing



### 606M1

<b>Package</b>	Nitrile rubber pad
<b>Type</b>	Removable
<b>FS Range</b>	±25g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• 606M2 IEPE option</li> <li>• Triaxial, hermetic</li> <li>• Seat pad accelerometer</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity
<b>Operating Temp.</b>	-20°C to 85°C
<b>Dimensions (mm)</b>	199 x 4
<b>Unique Features</b>	Off road equipment, amusement rides, commercial aircraft



### 4835A

<b>Package</b>	Titanium
<b>Type</b>	Screw mount
<b>FS Range</b>	±2g to ±200g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• UltraStable MEMS</li> <li>• Welded connector, hermetic</li> <li>• &lt;2% TEB (total error band)</li> </ul>
<b>Accuracy</b>	±0.1% non-linearity
<b>Operating Temp.</b>	-55°C to 125°C
<b>Dimensions (mm)</b>	22.9 x 22.9 x 17.1
<b>Typical Applications</b>	Road testing, motion control, flight testing



### 4630M12, 4630M14

<b>Package</b>	Titanium
<b>Type</b>	Screw mount
<b>FS Range</b>	±2g to ±200g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• UltraStable MEMS</li> <li>• Compact, rugged and double shielded cable</li> <li>• &lt;2% TEB (total error band)</li> </ul>
<b>Accuracy</b>	±0.1% non-linearity
<b>Operating Temp.</b>	-55°C to 125°C
<b>Dimensions (mm)</b>	22.9 x 22.9 x 16.0
<b>Typical Applications</b>	Road load testing, transportation testing



### 4332M3

<b>Package</b>	Stainless steel
<b>Type</b>	Screw mount
<b>FS Range</b>	±2g to ±50g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Low noise ranges</li> <li>• Temperature compensated</li> <li>• High over-range</li> </ul>
<b>Accuracy</b>	±1.0% non-linearity
<b>Operating Temp.</b>	-40°C to 115°C
<b>Dimensions (mm)</b>	34.5 x 34.5 x 31.2
<b>Typical Applications</b>	Structural monitoring, bridge testing



### XL403D

<b>Package</b>	Nickel plated aluminum
<b>Type</b>	Screw mount
<b>FS Range</b>	±2g to ±15g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Digital triaxial accelerometer</li> <li>• Smart, onboard processing</li> <li>• Temperature output included</li> </ul>
<b>Accuracy</b>	±0.25% non-linearity
<b>Operating Temp.</b>	-40°C to 85°C
<b>Dimensions (mm)</b>	36.5 x 25.4 x 17.5
<b>Typical Applications</b>	Smart sensor function, vibration monitoring and alarm functions

## PLUG AND PLAY ACCELEROMETERS

IEPE AC Response



### 7100A, 7101A

<b>Package</b>	Stainless steel/titanium
<b>Type</b>	Center-hole mount
<b>FS Range</b>	±50g to ±2,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Single axis, shear mode</li> <li>• Isolated mounting surface</li> <li>• Wide bandwidth, &gt;10 kHz</li> </ul>
<b>Operating Temp.</b>	7100A: -55°C to 150°C 7101A: -55°C to 125°C
<b>Dimensions (mm)</b>	7100A: 9.9 x 22.3, 7101A: 5.8 x 14.5
<b>Typical Applications</b>	Flight testing, general purpose, vibration monitoring



### 7102A

<b>Package</b>	Titanium
<b>Type</b>	Adhesive mount
<b>FS Range</b>	±50g to ±2,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Single axis, shear mode</li> <li>• Wide bandwidth</li> </ul>
<b>Operating Temp.</b>	-55°C to +125°C
<b>Dimensions (mm)</b>	4.4 x 11.9
<b>Typical Applications</b>	Small structures monitoring, minimal mass loading, general purpose testing



### 7108A

<b>Package</b>	Stainless steel
<b>Type</b>	Adhesive mounting
<b>FS Range</b>	±50g to ±500g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Single axis, shear mode</li> <li>• Wide bandwidth</li> <li>• Small size</li> </ul>
<b>Operating Temp.</b>	-55°C to 125°C
<b>Dimensions (mm)</b>	9.5 x 10.2
<b>Typical Applications</b>	Vibration monitoring, modal testing, general purpose



### 7104A, 7105A

<b>Package</b>	Stainless steel
<b>Type</b>	Stud mounting
<b>FS Range</b>	±50g to ±2,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Single axis, shear mode</li> <li>• Wide bandwidth</li> </ul>
<b>Operating Temp.</b>	-55°C to 125°C
<b>Dimensions (mm)</b>	7104A: 11.11 x 14.10, 7105A: 11.11 x 19.05
<b>Typical Applications</b>	General purpose IEPE accel, vibration monitoring, lab testing



### 7131A, 7132A

<b>Package</b>	Titanium
<b>Type</b>	Adhesive/stud mounting
<b>FS Range</b>	±50g to ±2,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Triaxial, shear mode</li> <li>• &gt;12 kHz bandwidth</li> <li>• Hermetically sealed</li> </ul>
<b>Operating Temp.</b>	-55°C to 125°C
<b>Dimensions (mm)</b>	7131A: 11.0 x 11.0 x 11.0, 7132A: 15.2 x 15.2 x 14.5
<b>Typical Applications</b>	General purpose, modal testing, vibration monitoring



### 7135A

<b>Package</b>	Stainless steel
<b>Type</b>	Adhesive mounting
<b>FS Range</b>	±50g to ±500g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Triaxial, through hole mount</li> <li>• Case isolated, internally shielded</li> <li>• Hermetically sealed</li> </ul>
<b>Operating Temp.</b>	-55°C to 125°C
<b>Dimensions (mm)</b>	28.6 x 14.0
<b>Typical Applications</b>	AD&M monitoring, HUMS, structural applications



### 8011-01

<b>Package</b>	Stainless steel
<b>Type</b>	Stud mount
<b>FS Range</b>	±5g to ±500g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Industrial accelerometer</li> <li>• Case isolated, internal shielding</li> <li>• Low cost</li> </ul>
<b>Operating Temp.</b>	-55°C to +125°C
<b>Dimensions (mm)</b>	22.2 x 50.8
<b>Typical Applications</b>	Industrial applications, machine monitoring, wind turbines



### 8011-01, 8021-01

<b>Package</b>	Stainless steel
<b>Type</b>	Stud/center-hole mount
<b>FS Range</b>	±10g to ±100g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Industrial accelerometer</li> <li>• Case isolated, internal shielding</li> <li>• Reverse wiring protection</li> </ul>
<b>Operating Temp.</b>	-55°C to 125°C
<b>Dimensions (mm)</b>	22.2 x 48.3
<b>Typical Applications</b>	Industrial applications, machine monitoring, intrinsic safety



### 8032-01

<b>Package</b>	Stainless steel
<b>Type</b>	Stud mount
<b>FS Range</b>	±50g to ±500g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Industrial accelerometer</li> <li>• Case isolated, internal shielding</li> <li>• Low cost, molded strain relief</li> </ul>
<b>Operating Temp.</b>	-40°C to 100°C
<b>Dimensions (mm)</b>	14.3 x 45.3
<b>Typical Applications</b>	Industrial applications, machine monitoring



### 8811-01

<b>Package</b>	Stainless steel
<b>Type</b>	Stud mount
<b>FS Range</b>	±5g to ±500g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Certified for wind turbines</li> <li>• ±2,500VAC lightning protection</li> <li>• Case isolated, internal shielding</li> </ul>
<b>Operating Temp.</b>	-55°C to +125°C
<b>Dimensions (mm)</b>	22.2 x 50.8
<b>Typical Applications</b>	Industrial applications, machine monitoring, wind turbines

## PLUG AND PLAY ACCELEROMETERS

4-20mA AC Accelerometer



### 8011, 8021-AR/AP

<b>Package</b>	Stainless steel
<b>Type</b>	Stud/center-hole mount
<b>FS Range</b>	5g to 50g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Industrial 4-20mA accelerometer</li> <li>• Case isolated, internal shielding</li> <li>• Top mount or side mount connector</li> </ul>
<b>Operating Temp.</b>	-40°C to 85°C
<b>Dimensions (mm)</b>	22.2 x 48.3
<b>Typical Applications</b>	Industrial applications, machine monitoring, intrinsic safety



### 8011, 8021-VR/VP

<b>Package</b>	Stainless steel
<b>Type</b>	Stud/center-hole mount
<b>FS Range</b>	0.5in/sec to 5.0in/sec
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Industrial 4-20mA velocity transmitter</li> <li>• Case isolated, internal shielding</li> <li>• Top mount or side mount connector</li> </ul>
<b>Operating Temp.</b>	-40°C to 85°C
<b>Dimensions (mm)</b>	22.2 x 48.3
<b>Typical Applications</b>	Industrial applications, machine monitoring, intrinsic safety

## PLUG AND PLAY ACCELEROMETERS

3 Wire Voltage AC Accelerometer



### 8102A

<b>Package</b>	Anodized aluminum
<b>Type</b>	Screw mount
<b>FS Range</b>	±25g to ±6,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Triaxial PE accel, low cost</li> <li>• Environmentally sealed, rugged</li> <li>• &lt;22µA current consumption</li> </ul>
<b>Operating Temp.</b>	-40°C to 125°C
<b>Dimensions (mm)</b>	25.4 x 21.6 x 10.8
<b>Typical Applications</b>	Impact and shock testing, R&D and lab applications

## PLUG AND PLAY ACCELEROMETERS

### PE Charge Accelerometer



#### 7500A

Package	Stainless steel
Type	Center-hole mount
Sensitivity	7pC/g to 20pC/g
Unique Features	<ul style="list-style-type: none"> <li>• Single axis, shear mode</li> <li>• Hermetically sealed</li> <li>• Isolated mounting surface</li> </ul>
Operating Temp.	-73°C to 260°C
Dimensions (mm)	8.4 x 22.3
Typical Applications	Gearbox vibration monitoring, flight test, high temp. applications



#### 7501A

Package	Titanium
Type	Center-hole mount
Sensitivity	5.6pC/g
Unique Features	<ul style="list-style-type: none"> <li>• Single axis, shear mode</li> <li>• Hermetically sealed</li> <li>• Bandwidth to &gt;15 kHz</li> </ul>
Operating Temp.	-73°C to 260°C
Dimensions (mm)	5.8 x 14.5
Typical Applications	Gearbox vibration monitoring, flight test, high temp. applications



#### 7502A

Package	Titanium
Type	Adhesive mounting
Sensitivity	1.8pC/g
Unique Features	<ul style="list-style-type: none"> <li>• Single axis, shear mode</li> <li>• Hermetically sealed</li> <li>• Miniature, &lt;1 gram</li> </ul>
Operating Temp.	-73°C to 260°C
Dimensions (mm)	4.4 x 11.9
Typical Applications	Small structures monitoring, minimal mass loading, high temp. applications



#### 7504A, 7505A

Package	Stainless steel
Type	Stud mount
Sensitivity	5.6pC/g
Unique Features	<ul style="list-style-type: none"> <li>• Single axis, shear mode</li> <li>• Top and side connector option</li> <li>• &gt;15 kHz Bandwidth</li> </ul>
Operating Temp.	-73°C to 260°C
Dimensions (mm)	7504A; 11.1 x 14.1, 7505A; 11.1 x 19.0
Typical Applications	Small structures monitoring, general purpose, high temp. applications



#### 7514A

Package	Stainless steel
Type	Stud mounting
Sensitivity	30pC/g to 100pC/g
Unique Features	<ul style="list-style-type: none"> <li>• Single axis, shear mode</li> <li>• &gt;12 kHz bandwidth</li> <li>• High sensitivity</li> </ul>
Operating Temp.	-73°C to 260°C
Dimensions (mm)	15.0 x 15.0
Typical Applications	Low frequency vibration, general purpose, high temp. applications



#### 7531A

Package	Titanium
Type	Adhesive mount
Sensitivity	1.8pC/g
Unique Features	<ul style="list-style-type: none"> <li>• Triaxial, shear mode</li> <li>• Miniature, light weight</li> <li>• &gt;10 kHz bandwidth</li> </ul>
Operating Temp.	-73°C to 260°C
Dimensions (mm)	11.0 x 13.6 x 11.0
Typical Applications	High temp. applications, flight testing, structural monitoring

## PLUG AND PLAY ACCELEROMETERS

### Amplifiers



#### 121

Type	Bench top
No. of Channels	3
Gain Range	x0.001 to 9999
Unique Features	<ul style="list-style-type: none"> <li>• Universal DC amplifier</li> <li>• Low noise operation with auto-zero</li> <li>• For bridge type sensors</li> </ul>
Dimensions (mm)	301 x 258 x 102
Typical Applications	Instrumentation labs, test benches, R&D facilities



#### 130

Type	In-line charge converter
No. of Channels	1
Gain Range	x0.1, 1, 10
Unique Features	<ul style="list-style-type: none"> <li>• Low noise, small package</li> <li>• BNC male or female</li> <li>• Wide bandwidth</li> </ul>
Dimensions (mm)	Ø13.8 x 52.2
Typical Applications	Instrumentation labs, high temperature testing PE accelerometer



#### 140A & 142A

Type	Inline amplifier with auto-zero
No. of Channels	1
Gain Range	x10, 25, 50, 100, 200
Unique Features	<ul style="list-style-type: none"> <li>• ±1.5 mV auto-zero</li> <li>• 140A for bridge type sensor, 142A for strain gages</li> <li>• 5 to 30 VDC excitation</li> </ul>
Dimensions (mm)	57 x 25 x 13
Typical Applications	Instrumentation labs, test benches, R&D facilities



#### 160

Type	Bench top
No. of Channels	1
Gain Range	x1, 10
Unique Features	<ul style="list-style-type: none"> <li>• Economical IEPE power supply</li> <li>• Portable, compact</li> <li>• Rechargeable battery</li> </ul>
Dimensions (mm)	101 x 83 x 32
Typical Applications	Instrumentation



#### 161

Type	Bench top
No. of Channels	4
Gain Range	x0.001 to 999.9
Unique Features	<ul style="list-style-type: none"> <li>• Charge and IEPE conditioner</li> <li>• Sensitivity normalization</li> <li>• Support IEEE 1451.4 TEDS</li> </ul>
Dimensions (mm)	310 x 180 x 115
Typical Applications	Instrumentation labs, PE/IEPE sensors